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L12 and oxygen concentration	6

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 IBM Technical Disclosure Bulletins

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L13

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DATE: Sunday, January 25, 2004 [Printable Copy](#) [Create Case](#)

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<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<u>L13</u>	L12 and oxygen concentration	6	<u>L13</u>
<u>L12</u>	L10 and l2 and l5 and l6	21	<u>L12</u>
<u>L11</u>	L10 and l2 and l4	4	<u>L11</u>
<u>L10</u>	L9	66638	<u>L10</u>
<u>L9</u>	L8 and l1	66638	<u>L9</u>
<u>L8</u>	560/\$ or 562/\$	110891	<u>L8</u>
<u>L7</u>	L6 and explos\$7	0	<u>L7</u>
<u>L6</u>	L5 and (propane or propylene or acrolein or isobutylene or methacrolein)	21	<u>L6</u>
<u>L5</u>	L3 and shell and tube and reactor	25	<u>L5</u>
<u>L4</u>	L3 and shell and tube reactor	4	<u>L4</u>
<u>L3</u>	L2 and oxygen and air	634	<u>L3</u>
<u>L2</u>	L1 and oxidat\$6 and acrylic acid	1435	<u>L2</u>

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1. Document ID: US 20030187294 A1

Using default format because multiple data bases are involved.

L13: Entry 1 of 6

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030187294

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030187294 A1

TITLE: Process for producing catalysts comprising nanosize metal particles on a porous support, in particular for the gas-phase oxidation of ethylene and acetic acid to give vinyl acetate

PUBLICATION-DATE: October 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hagemeyer, Alfred	Frankfurt		DE	
Dingerdissen, Uwe	Seeheim-Jugenheim		DE	
Kuhlein, Klaus	Kelkheim		DE	
Manz, Andreas	Sinzheim		DE	
Fischer, Roland	Neckargemund		DE	

US-CL-CURRENT: [560/241](#); [502/325](#), [502/344](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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2. Document ID: US 6603038 B1

L13: Entry 2 of 6

File: USPT

Aug 5, 2003

US-PAT-NO: 6603038

DOCUMENT-IDENTIFIER: US 6603038 B1

TITLE: Method for producing catalysts containing metal nanoparticles on a porous support, especially for gas phase oxidation of ethylene and acetic acid to form vinyl acetate

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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3. Document ID: US 6492548 B1

L13: Entry 3 of 6

File: USPT

Dec 10, 2002

US-PAT-NO: 6492548

DOCUMENT-IDENTIFIER: US 6492548 B1

TITLE: Process for the oxidation of alkanes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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4. Document ID: US 6187963 B1

L13: Entry 4 of 6

File: USPT

Feb 13, 2001

US-PAT-NO: 6187963

DOCUMENT-IDENTIFIER: US 6187963 B1

TITLE: Processes for the manufacture of acrolein derivatives

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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5. Document ID: US 6166263 A

L13: Entry 5 of 6

File: USPT

Dec 26, 2000

US-PAT-NO: 6166263

DOCUMENT-IDENTIFIER: US 6166263 A

TITLE: Processes for the manufacture of acrolein

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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6. Document ID: US 6057481 A

L13: Entry 6 of 6

File: USPT

May 2, 2000

US-PAT-NO: 6057481

DOCUMENT-IDENTIFIER: US 6057481 A

TITLE: Processes for the manufacture of methylmercaptopropanal

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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Terms	Documents
L12 and oxygen concentration	6

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1. Document ID: US 20030187294 A1

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L12: Entry 1 of 21

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030187294

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030187294 A1

TITLE: Process for producing catalysts comprising nanosize metal particles on a porous support, in particular for the gas-phase oxidation of ethylene and acetic acid to give vinyl acetate

PUBLICATION-DATE: October 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hagemeyer, Alfred	Frankfurt		DE	
Dingerdissen, Uwe	Seeheim-Jugenheim		DE	
Kuhlein, Klaus	Kelkheim		DE	
Manz, Andreas	Sinzheim		DE	
Fischer, Roland	Neckargemund		DE	

US-CL-CURRENT: [560/241](#); [502/325](#), [502/344](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMIC	Draw. De
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2. Document ID: US 20030045749 A1

L12: Entry 2 of 21

File: PGPB

Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030045749

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030045749 A1

TITLE: Method for production of organic acid

PUBLICATION-DATE: March 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
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Nishimura, Takeshi	Himeji-shi	JP
Mitsumoto, Tetsuji	Himeji-shi	JP
Sakamoto, Kazuhiko	Himeji-shi	JP
Haramaki, Hidefumi	Himeji-shi	JP

US-CL-CURRENT: 562/523; 560/1, 60/691

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. De
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 3. Document ID: US 6651731 B2

L12: Entry 3 of 21

File: USPT

Nov 25, 2003

US-PAT-NO: 6651731

DOCUMENT-IDENTIFIER: US 6651731 B2

TITLE: Method for cooling heating grade heat exchanger in unsteady state

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. De
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 4. Document ID: US 6603038 B1

L12: Entry 4 of 21

File: USPT

Aug 5, 2003

US-PAT-NO: 6603038

DOCUMENT-IDENTIFIER: US 6603038 B1

TITLE: Method for producing catalysts containing metal nanoparticles on a porous support, especially for gas phase oxidation of ethylene and acetic acid to form vinyl acetate

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. De
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 5. Document ID: US 6565969 B1

L12: Entry 5 of 21

File: USPT

May 20, 2003

US-PAT-NO: 6565969

DOCUMENT-IDENTIFIER: US 6565969 B1

TITLE: Adhesive article

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. De
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 6. Document ID: US 6492548 B1

L12: Entry 6 of 21

File: USPT

Dec 10, 2002

US-PAT-NO: 6492548

DOCUMENT-IDENTIFIER: US 6492548 B1

TITLE: Process for the oxidation of alkanes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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 7. Document ID: US 6482981 B2

L12: Entry 7 of 21

File: USPT

Nov 19, 2002

US-PAT-NO: 6482981

DOCUMENT-IDENTIFIER: US 6482981 B2

TITLE: Method for producing acrylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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 8. Document ID: US 6462232 B1

L12: Entry 8 of 21

File: USPT

Oct 8, 2002

US-PAT-NO: 6462232

DOCUMENT-IDENTIFIER: US 6462232 B1

TITLE: Production process for acrylic acid under controlled temperature conditions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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 9. Document ID: US 6342473 B1

L12: Entry 9 of 21

File: USPT

Jan 29, 2002

US-PAT-NO: 6342473

DOCUMENT-IDENTIFIER: US 6342473 B1

TITLE: Hard surface cleaning compositions comprising modified alkybenzene sulfonates

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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 10. Document ID: US 6303556 B1

L12: Entry 10 of 21

File: USPT

Oct 16, 2001

US-PAT-NO: 6303556

DOCUMENT-IDENTIFIER: US 6303556 B1

TITLE: Hard surface cleaning compositions comprising modified alkybenzene sulfonates

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. Da
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